



CH2MHILL

10.14
7/16/98
CH2M HILL

250 E. 5th Street

Suite 1500

Cincinnati, OH

45202-4151

Tel 513.762.7605

Fax 513.721.4628

July 14, 1998

143104.RO.03.01

Mr. Michael McAteer, WAM (5HSRL-6J)
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, IL 60604-3590

Subject: Monthly Progress Report No. 6
CH2M HILL/E&E Oversight of Remedial Action Activities
Enviro-Chem (ECC) Superfund Site, Zionsville, Indiana
WA No. 008-RXBF-0530, Contract No. 68-W6-0025

Dear Mr. McAteer:

Enclosed is a copy of Progress Report No. 6 for the June 1998 reporting period and the corresponding photographic log.

Please call me at (513) 762-7605 if you have any questions.

Sincerely,

CH2M HILL

Tim Harrison
Site Manager

CIN\PRO6

Enclosures

c: Stephen Nathan/PO/USEPA; 5HSM-5J (w/o enclosure)
Peggy Hendrixson/CO/USEPA; 5MCC-10J (w/o enclosure)
Ike Johnson/PM/MKE
Al Erickson/RTL/MKE
Dan Lynch/Environment & Ecology
Gail Gill/AA/MKE

ECC RA Oversight Progress Report No. 6 (June 1998)

CH2M HILL Remedial Action (RA) Oversight Observation

This is the sixth RA oversight progress report submitted by CH2M HILL for RA activities at the Enviro-Chem (ECC) Superfund Site in Zionsville, Indiana. This progress report covers the period from June 1 through June 30, 1998.

Versar Inc., the ECC Trust's (Trust) prime remediation contractor, and several of their subcontractors performed field activities during the reporting period. Dan Lynch/Ecology and Environment, Inc. (CH2M HILL subcontractor) conducted full-time oversight at the ECC site during this reporting period at the request of U.S. EPA. Mr. Lynch was not onsite from June 13 through 21 as field activities were minimal due to ponded water onsite from rain. Mr. Lynch maintained contact with the site construction superintendent by phone to track progress during this period.

Tim Harrison/CH2M HILL and Mr. Lynch collected the first surface soil samples from the excavated area of the "southern concrete pad area" per the approved QAPjP and FSP. Samples were shipped to Recra Environmental Laboratories for analysis. Twelve samples were collected during the reporting period. Mike McAteer, USEPA WAM, was on site from June 24 through 26 to observe excavation and sampling activities. Locations for the twelve samples collected are shown on the graph page attached at the end of this report.

Progress Made by Trust's Contractor This Reporting Period

The line items below list the status of a particular remediation task identified in the Trust's Revised Project Schedule dated June 1, 1998. Line items not listed were completed prior to this reporting period.

- 43. Construct Perimeter Roads—This item is in progress, but behind schedule. Roads have been "roughed in" but are not final based on specifications. This is not a critical path issue and has been delayed while the Trust address critical path issues.
- 44. Clean and Repair Erosion Ditches—This item was continued during this reporting period and is behind schedule. Revetment was added to the northern ditch area. This is not a critical path issue and has been delayed while the Trust addresses critical path issues.
- 45. Install Culvert System—This item was partially completed prior to this reporting period. No progress was made on this item during this period. The remainder of the culverts will be installed after this reporting period.
- 62. Pipe—Most of the underground piping installation between the tanks and the process building was completed and tested prior to this reporting period. Some external piping still remains to be installed with the central and upper northern SVE trenches.

- 63. Wire— The wiring of the process building, tank power and control continued during this reporting period. Wiring of the process equipment will continue into the next reporting period.
- 64. SVE System Testing— This item was scheduled for completion during this reporting period but was not completed due to the delay of the excavation of the south pad area. The remaining SVE piping cannot be installed until the soil has been placed in the north and central areas. Testing will continue into the next period.
- 65. SVE Startup and Shakedown (native soil)— This item was scheduled for completion during this reporting period. The northern system has been tested but the central system has not been installed and is behind schedule due to delays in the excavation of the south pad area.
- 66. SVE System Complete System — System is not complete. Installation of the system is expected to continue during the next reporting period.
- 67. WWT System Testing—Startup testing of the stationary and mobile wastewater treatment system continued during this reporting period. IDEM granted approval for continuous direct discharge and the weekly sampling permit requirement was initiated. Startup testing is expected to be completed during the next period.
- 68. Prepare Surface Water and Sump Pumps for WWT— This activity was completed during this reporting period.
- 69. WWT Start-Up and Shakedown— This activity was initiated prior to this reporting period and is expected to continue into the next reporting period.
- 70. Pumping and Treating of Poned Water— This activity was initiated prior to this reporting period, continued through this period, and is expected to continue into the next period as necessary.
- 71. Wastewater Storage and Treatment System Complete-- The system is near completion. Some instrumentation and control functions must still be completed.
- 73. **North Treatment Area Phase 1 (Existing Soils)**— Activities continue as described in item 75 below.
- 75. Layout— This activity was initiated prior to this reporting period and will continue until the SVE system is complete.
- 78A. Install Keyway Berm — Completed during this reporting period except for a short section adjacent to the decon pad.
- 79 -84 Installation of North Area Native Soil SVE System — These items were initiated late in this reporting period and will continue into the next period.
- 85. Air monitoring — Air monitoring was conducted during this period and will continue into the next reporting period.
- 87. **South Concrete Pad Area**— Work is continuing as discussed in items 89 below.
- 89. Install Well Points to Dewater Area— This activity has not yet been initiated. This activity will be required based upon further review of the geo-technical report and

will be initiated during the next reporting period.

112 - 117. Southern pad excavation— Excavation was initiated during this period.

All other schedule line items are to be initiated after this reporting period.

Problems Resolved by the ECC Trust's Contractor

1. During this reporting period a tank of treated water failed to meet the required discharge limits. The Trust discovered that the portable water treatment unit was shipped without carbon installed in the adsorption columns. Carbon was placed in the columns and subsequent samples met discharge limits.
2. During the excavation of the southern concrete pad two four-inch wells were discovered. Neither had been abandoned per IDEM requirements. The southern most well was about 29 feet deep and was filled with soil. The second well, about 65 feet deep, was artesian at about 1 gallon per minute. Both wells were grouted by a Trust drilling contractor. Later, water began to flow around the outside of the well casing of the artesian well. Contractors could not immediately plug the flow so they built an earthen berm around the well. The berm allowed a "pond" to develop resulting in the development of hydraulic head that eventually stopped the flow. The static head was reached equilibrium a few feet below the top of the adjacent ground surface. The ultimate closing of the well is expected to be achieved early during the next reporting period.

Problem Areas Remaining

1. During geotechnical drilling of the southern concrete pad area, the Trust discovered an area of high VOCs (based on PID readings of the soil using an OVM) that they did not anticipate. This area was not intended to be remediated by the Trust under the current remedial design. Five borings were completed to further investigate the area. Three of the borings showed no obvious contamination (based on PID headspace readings performed by Trust). The remaining two borings showed indications of contamination and sampling/treatment wells ("hot spot" wells) were installed.

During this reporting period the test results from the two contaminated wells showed that the levels had significantly increased after initial contaminant reduction implying that a larger, non-local contaminant source may be present. The Trust's plan is to complete the south pad excavation in an attempt to cut off the potential source(s) from the "hot spot" wells and then retreat with Fenton's reagent.

2. During the excavation of the southern concrete an artesian well was found. It was grouted internally but then started to leak around the outside of the casing as discussed above in the "Problems Resolved" section above. The trust is currently evaluating options to properly abandon the artesian well.
3. Based in the Trust's reevaluation of geological and hydrogeological data, they believe that the northeast corner of the "southern pad area" will have to be de-watered prior to excavation. The Trust is currently evaluating dewatering requirements.

Trust's Activities Planned

The following activities are expected to begin, or be completed, during the next reporting period based on Versar's current project schedule. The line items below list the status of specific remediation line items identified in the Trust's Revised Project Schedule dated June 1, 1998.

- 43. Construct Perimeter Roads— Complete construction of the interior site access road.
- 44. Clean and Repair Erosion Ditches— Initiate and complete construction of site erosion ditches per the specifications.
- 45. Install Culvert System— Complete construction of the site culvert system.
- 62-64. Process Building Equipment— Continue wiring SVE process equipment and ancillary plumbing and wiring of the process building. Functional testing of some equipment is also expected.
- 114-121. South Concrete Pad Area— Complete excavation of southern concrete pad area including placement of soil in the north treatment area, sampling, installation of the north wall liner, and backfilling of the excavation.
- 124-127. North Treatment Area (Phase II)— Complete phase II of the northern treatment area.

Other line items shown on the contractor schedule are expected to take place after the next reporting period and are therefore not included in this report.

ECC Trust's Schedule Status

Based on the Trust's revised project schedule dated June 1, 1998, it appears that progress is about 2 to 3 weeks behind schedule at the end of this reporting period.



The Schneider Corporation

PROJECT NAME: ENVIROCHEM @ NSL
PROJECT PHASE:
DESCRIPTION: REF PTS FOR SAMPLING

PROJECT NO: 799.003 SHEET 2 OF 2
DESIGNED BY: N. CRIDUN
CHECKED BY: B. HULL
DATE: 13 JUN 98
ASSUMPTIONS / REFERENCES:

